

Visualization Project1

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Project Data set Chosen: Police Brutality

Source: Kaggle data set

Introduction:

The chosen data set contains the information about the *brutal deaths in hands of police in the years 2000 to 2016*. This dataset aims to provide insight into individuals who were killed during altercations with police. It includes information on their age, race, mental health status, weapons they were armed with, and if they were fleeing. The dataset has 12479 rows and 19 columns.

This dataset was provided by *FBI* and *the Centers for Disease Control and Prevention*.

Content:

UID, Unique ID of the murdered
Name, The name of the murdered
Age, The age of the murdered
Stages of Life, The age stage of the murdered
Gender, The Gender of the murdered
Race, The Race of the murdered
Date, The date of death
Year, The year in which the death occurred
Quarter, The Quarter in which the death occurred
Month, The month in which the death occurred
Week, The week in which the death occurred
Day, The day in which the death occurred
City, The City in which the death occurred
State, The State in which the death occurred
Region, The Region in which the death occurred
Manner of death, In what way was the victim killed?
Armed, Did the victim have a weapon?
Mental illness, Was the victim mentally ill?
Flee, Did the victim try to escape?

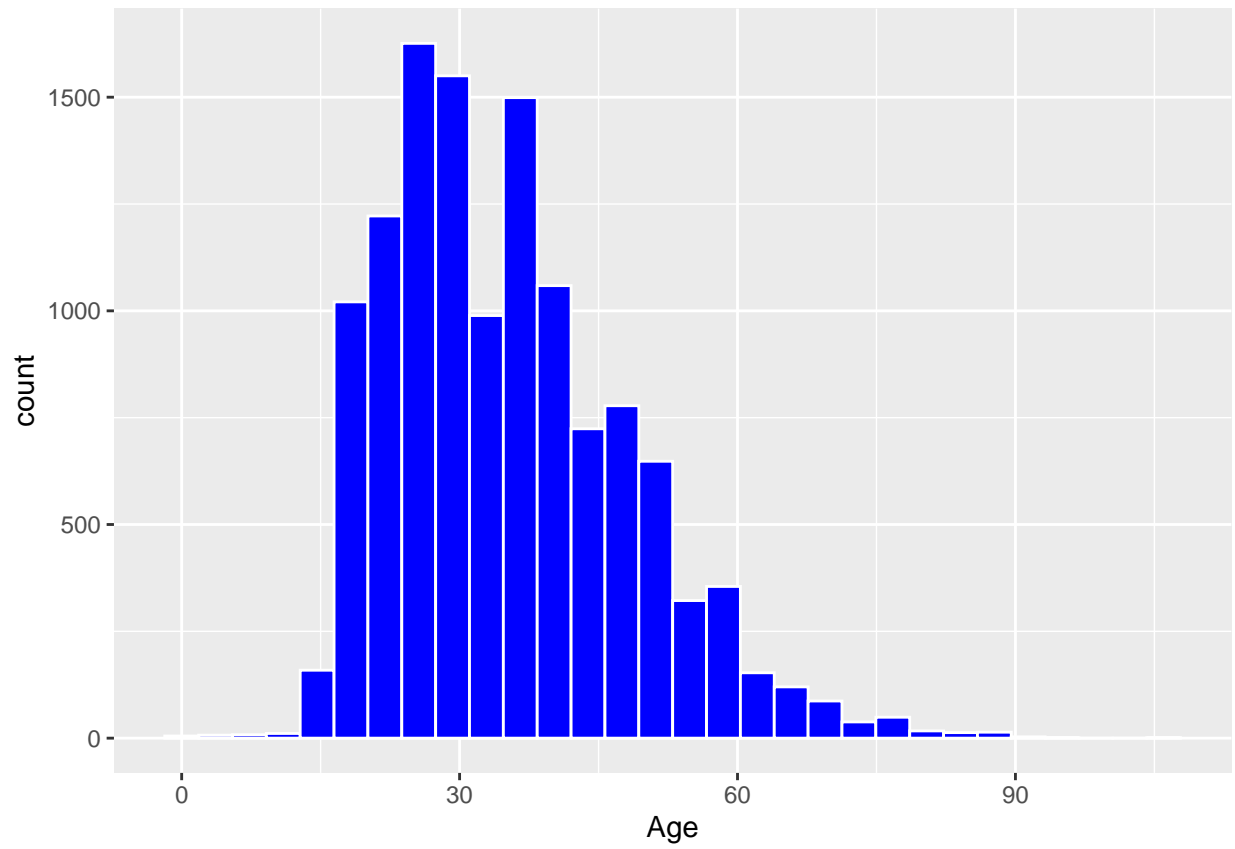
Reading the data:

```
##      UID              Name Age  Stages.of.Life Gender  Race      Date Year
## 1 133      Karen O. Chin  44 Middle Age Adult Female Asian  5/4/2000 2000
## 2 169      Chyraphone Komvongsa 26      Adult   Male Asian  6/2/2000 2000
## 3 257      Ming Chinh Ly  36      Adult   Male Asian  8/13/2000 2000
## 4 483      Kinh Quoc Dao  29      Adult   Male Asian  2/9/2001 2001
## 5 655      Vanpaseuth Phaisouphanh 25      Adult   Male Asian  6/10/2001 2001
## 6 668 Bernardo Ancheta Caberto 55 Middle Age Adult   Male Asian  6/23/2001 2001
##      Quarter Month Week Day      City      State Region Manner_of_death  Armed
## 1      2      5      18      4      Alameda California  west      Shot UnKnown
## 2      2      6      22      2      Fresno California  west      Shot UnKnown
## 3      3      8      32     13      Rosemead California  west      Shot      Gun
## 4      1      2      6      9 Valley Glen California  west      Shot      Gun
## 5      2      6      23     10      Riverside California  west      Shot      Knife
## 6      2      6      25     23      Henderson      Nevada  west      Shot      Knife
##      Mental_illness  Flee
## 1      FALSE FALSE
## 2      FALSE FALSE
## 3      FALSE FALSE
## 4      FALSE FALSE
## 5      FALSE FALSE
## 6      FALSE FALSE
```

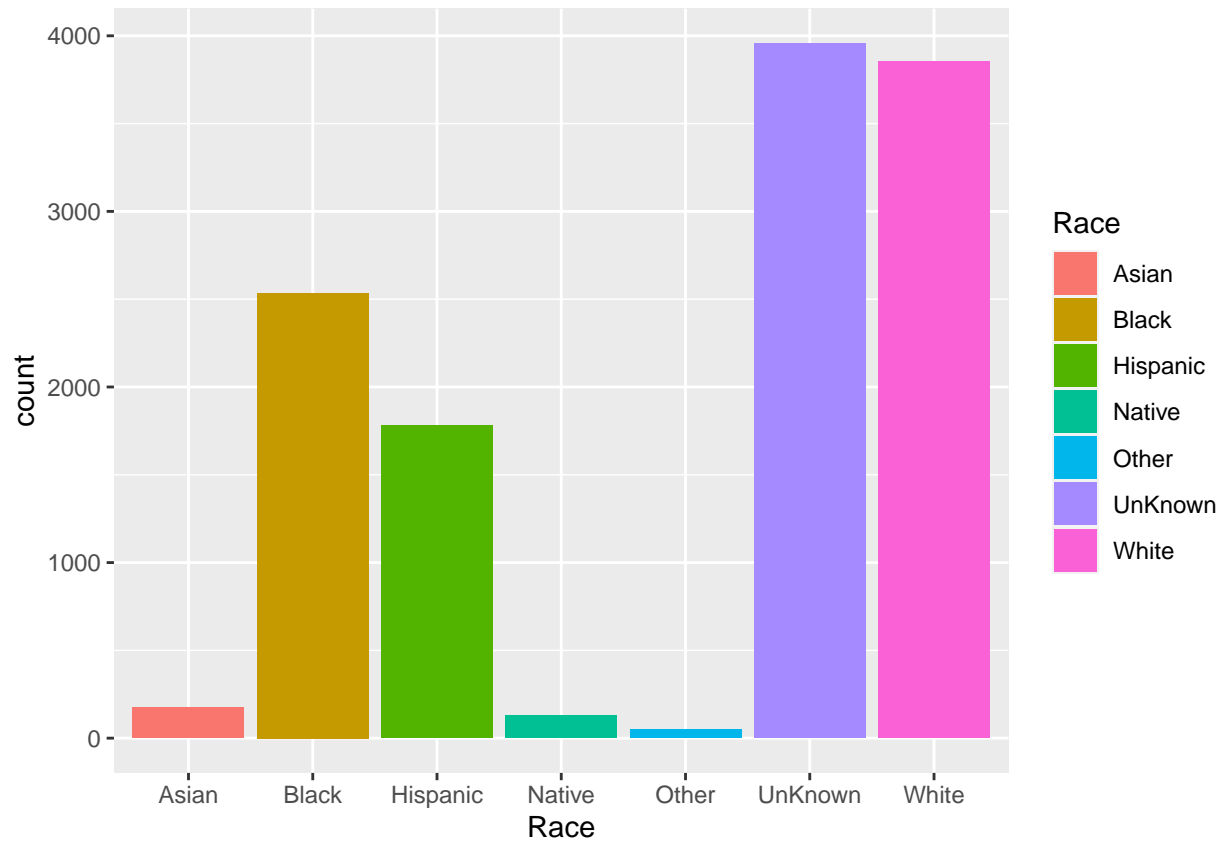
Plots and Graphs:

No. of death with age:

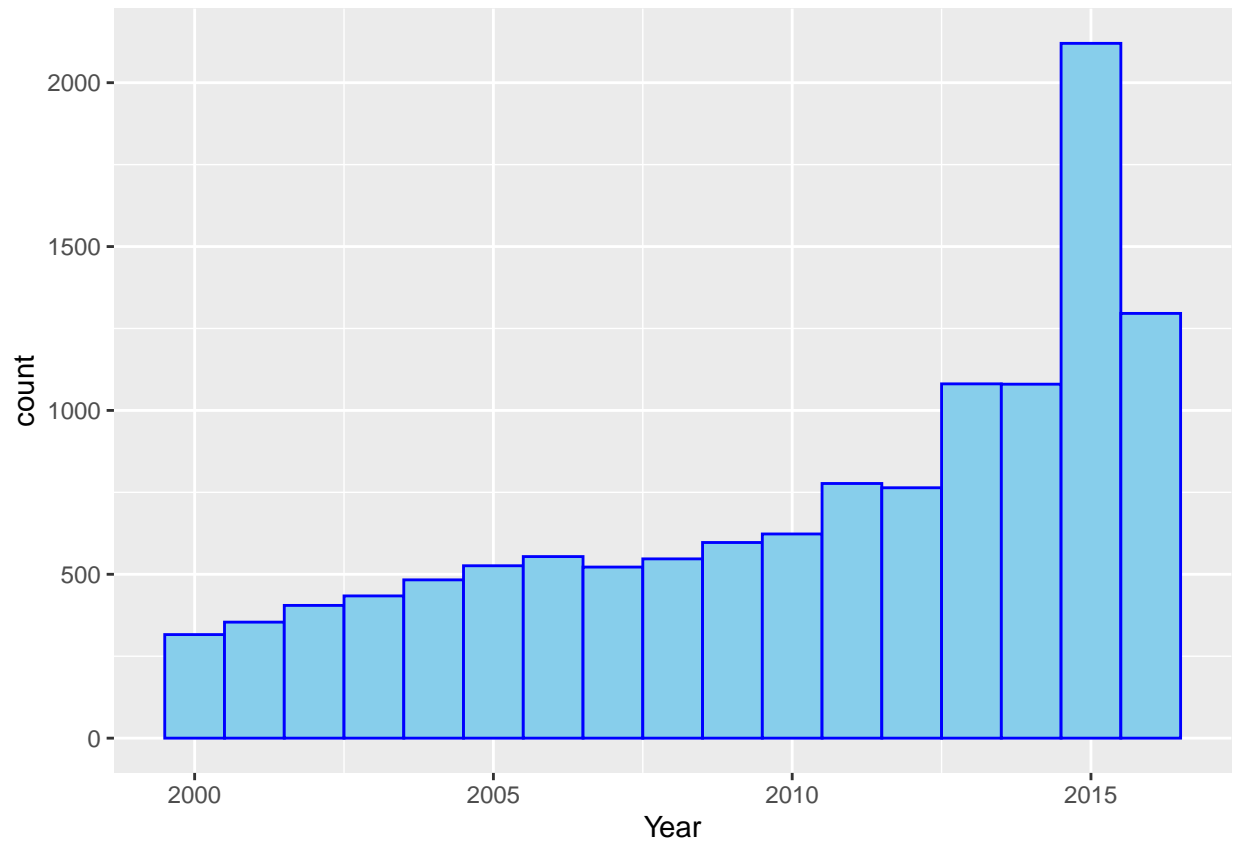
```
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```

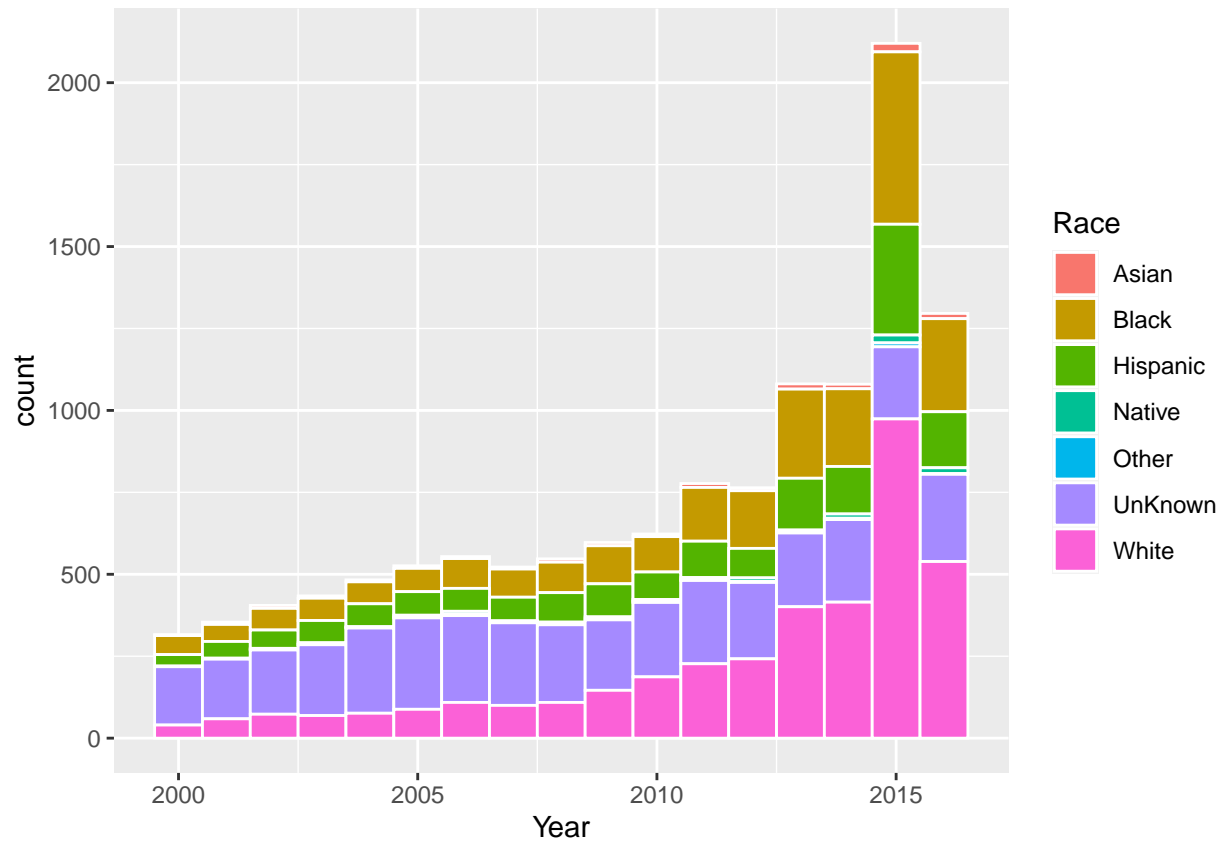


No. of death with race: This graph shows us how the deaths vary for different races.



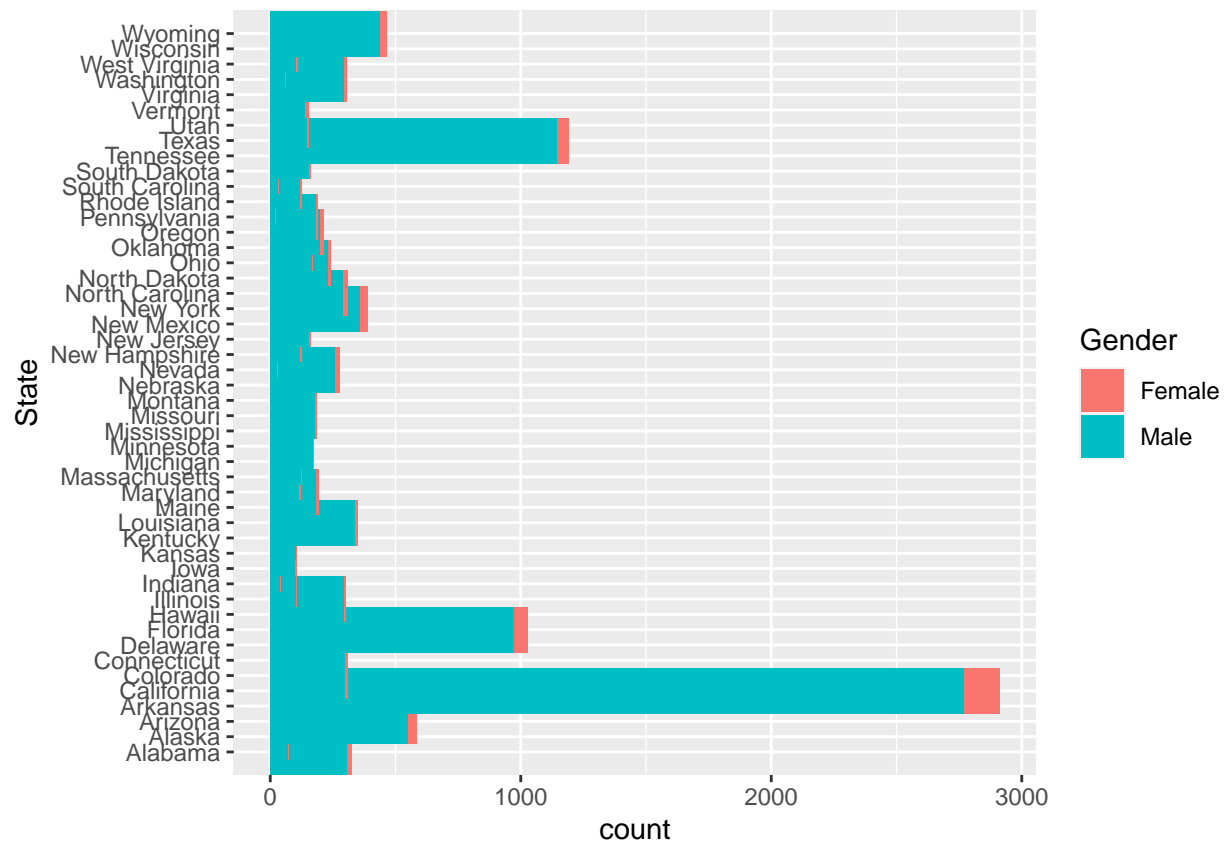
police brutality with years: We can see that the police brutality roughly increases with time. The peak in brutality is seen in the year 2015.



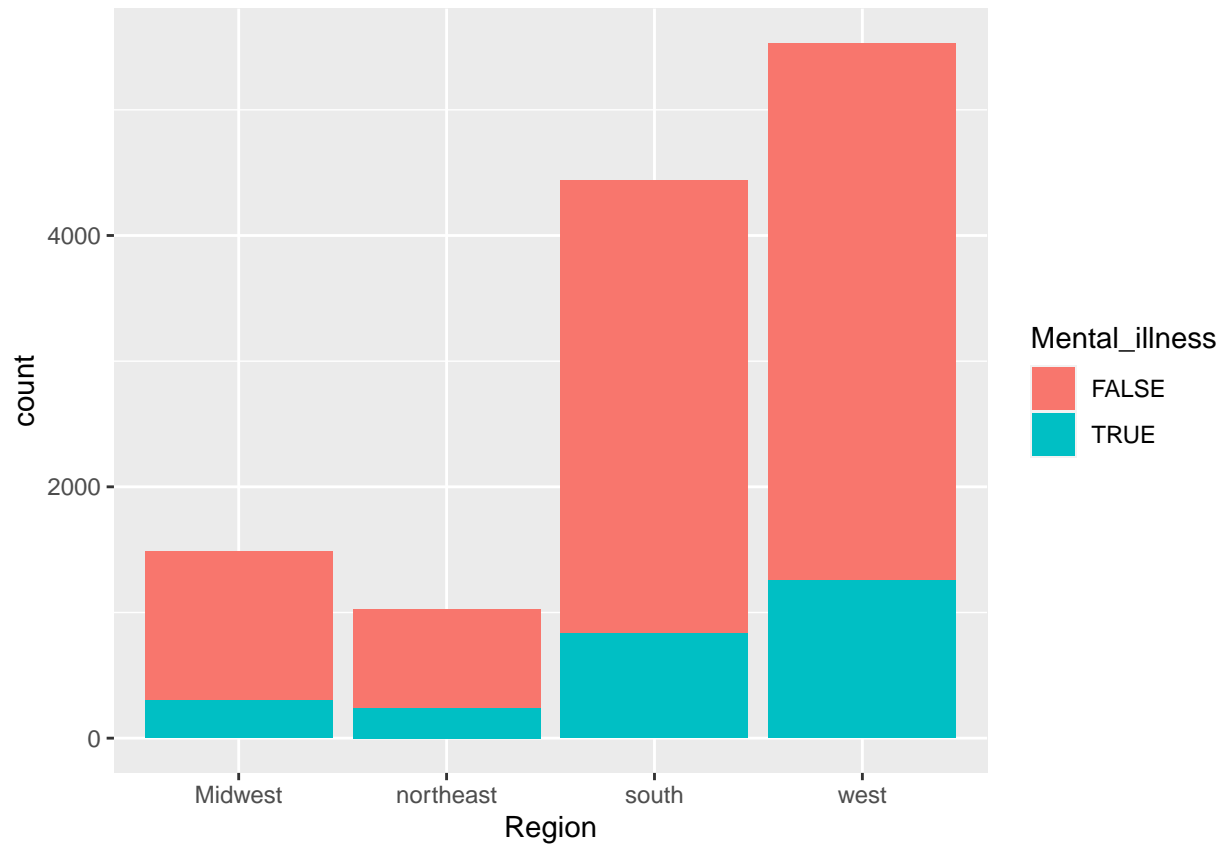


Brutality in different States:

Warning: position_stack requires non-overlapping x intervals



Bar Chart of the region of death: We can see that the most brutality is seen in the west region.



Bar diagram of Armed: This graph also checks if the person was armed and trying to flee or not. It is also evident that mostly the victims of Police brutality either have Guns and knives or explosives with them or the information about them being armed is unknown or unarmed.

Armed

